

CURRICULUM VITAE

Ivana Jerković

Name	Ivana Jerković
Present Work Address	College de France 11 place Marcelin Berthelot, 75005 Paris, France
Nationality	Croatian
Email	ivana.jerkovic@college-de-france.fr

ACADEMIC DEGREES

2010 - 2017	PhD in Biology (Molecular Genetics) Faculty of Life Sciences, Humboldt University of Berlin, Germany
2004 - 2010	Engineer of Molecular Biology (Equivalent to Joint Bachelor and Master of Science) Faculty of Science, University of Zagreb, Croatia

SCIENTIFIC RESEARCH EXPERIENCE

2024 –	Postdoctoral Fellowship Research Group Developmental Gene Regulation, College de France, CNRS and INSERM, Paris, France Project Title Gene Expression and Chromatin Dynamics in Early Development
2017 - 2023	Postdoctoral Fellowship Research Group Chromatin and Cell Biology, Institute for Human Genetics, CNRS and UM, Montpellier, France Project Title A Scaffolding Element Rewires Local 3D Chromatin Architecture During Differentiation
2010 – 2017	Doctoral Thesis Research group: Development & Disease, Max-Planck-Institute for Molecular Genetics, Berlin, Germany Project Title Genome-wide binding of posterior HOXA/D transcription factors reveals subgrouping and association with CTCF
2009 - 2010	Master Thesis Research group: Laboratory of molecular virology and bacteriology, Ruder Boskovic Institute, Zagreb, Croatia Project Title Production of human papilloma virus E6 and E7 oncoproteins in Escherichia coli
2008 - 2009	Research Intern Research group: Wuertz Group, Department of Civil and Environmental Engineering, UC Davis, CA, USA

FELLOWSHIPS & SCHOLARSHIPS

2018 Dec	EMBO Long-term Fellowship , European Molecular Biology Organization
2010 Aug	Doctoral Scholarship , Berlin-Brandenburg School for Regenerative Therapies, Berlin, Germany
2008 Sep	IAESTE Placement , Paid Student Exchange Placement to UC Davis, Davis, California, USA
2005 July	Croatian Ministry of Education , State Scholarship for Gifted Students, Zagreb, Croatia

LANGUAGE

Croatian Native speaker	English Fluent	German A2 level	French B2 level
--------------------------------	-----------------------	------------------------	------------------------

ACADEMIC PUBLICATIONS

Oligopaint FISH to Study Chromosomal Architecture and Structural Variations

Reboul H., Normanno D., Szabo Q., Jerković I., Cavalli G., Bantignies F.; Chromoanagenesis: Methods and Protocols (2025)
doi:10.1007/978-1-0716-4750-9_28

Evolution and function of chromatin domains across the tree of life

Szalay M.F., Majchrzycka B., Jerković I., Cavalli G. ¥, Ibrahim D.M. ¥; Nature Structural & Molecular Biology (2024)
doi:10.1038/s41594-024-01427-y.

Understanding 3D genome organization by multidisciplinary methods

Jerković I., Cavalli G.; Nature Reviews Molecular Cell Biology (2021) doi:10.1038/s41580-021-00362-w

Regulation of single-cell genome organization into TADs and chromatin nanodomains

Szabo Q., Donjon A. #, Jerković I. #, Papadopoulos G.L. #, Cheutin T., Bonev B., Nora E.P., Bruneau B.G., Bantignies F., Cavalli G.; Nature Genetics (2020) doi:10.1038/s41588-020-00716-8

Unblending of transcriptional condensates in human repeat expansion disease

Basu S. #, Mackowiak S.D. #, Niskanen H. \$, Knezevic D. \$, Asimi V., Grosswendt S., Geertsema H., Ali S., Jerković I., Ewers H., Mundlos S., Meissner A., Ibrahim D.M. ¥, Hnisz D. ¥; Cell (2020) doi:10.1016/j.cell.2020.04.018

Higher-order chromosomal structures mediate genome function

Jerković I. #, Szabo Q. #, Bantignies F. ¥, Cavalli G. ¥; Journal of molecular biology (2019) doi:10.1016/j.jmb.2019.10.014

Functional dissection of the Sox9–Kcnj2 locus identifies nonessential and instructive roles of TAD architecture

Despang A., Schöpflin R., Franke M., Ali S., Jerković I., Paliou C., Chan W.L., Timmermann B., Wittler L., Vingron M., Mundlos S. ¥, Ibrahim D.M. ¥; Nature Genetics (2019) doi:10.1038/s41588-019-0466-z

Preformed chromatin topology assists transcriptional robustness of Shh during limb development

Paliou C., Guckelberger P., Schöpflin R., Heinrich V., Esposito A., Chiariello A. M., Bianco S., Annunziatella C., Helmuth J., Haas S., Jerković I., Brieske N., Wittler L., Timmermann B., Nicodemi M., Vingron M., Mundlos S. ¥, Andrey G. ¥; PNAS (2019)
doi:10.1073/pnas.1900672116

Dynamic 3D Chromatin Architecture Determines Enhancer Specificity and Morphogenetic Identity in Limb Development

Kragestein K.B. #, Spielmann M. #, Paliou C., Heinrich V., Schoepflin R., Esposito A., Annunziatella C., Bianco S., Chiariello A.M., Jerković I., Harabula I., Guckelberger P., Pechstein M., Wittler L., Chan W.L., Franke M., Lupiáñez D.G., Kraft K., Timmermann B., Vingron M., Visel A., Nicodemi M., Mundlos S. ¥, Andrey G. ¥; Nature Genetics (2018) doi:10.1038/s41588-018-0221-x

Genome-wide binding of posterior HOXA/D transcription factors reveals subgrouping and association with CTCF

Jerković I., Ibrahim D.M., Andrey G., Haas S., Hansen P., Janetzki C., Navarrete I.G., Robinson P.N., Hecht J., Mundlos S.; PlosGenetics (2017) doi:10.1371/journal.pgen.1006567

Characterization of hundreds of regulatory landscapes in developing limbs reveals two regimes of chromatin folding

Andrey G. #, Schöpflin R. #, Jerković I., Heinrich V., Ibrahim D.M., Paliou C., Hochradel M., Timmermann B., Vingron M. and Mundlos S.; Genome Research (2016) doi: 10.1101/gr.213066.116

Formation of novel chromatin domains determines pathogenicity of genomic duplications

Franke M. #, Ibrahim D.M. #, Andrey G., Schwarzer W., Heinrich V., Schöpflin R., Kraft K., Kempfer R., Jerković I., Chan W.L., Spielmann M., Timmermann B., Wittler L., I Kurth., Cambiaso P., Zuffardi O., Houg G., Lambie L., Brancati F., Pombo A., Vingron M., Spitz F., Mundlos S.; Nature (2016) doi:10.1038/nature19800